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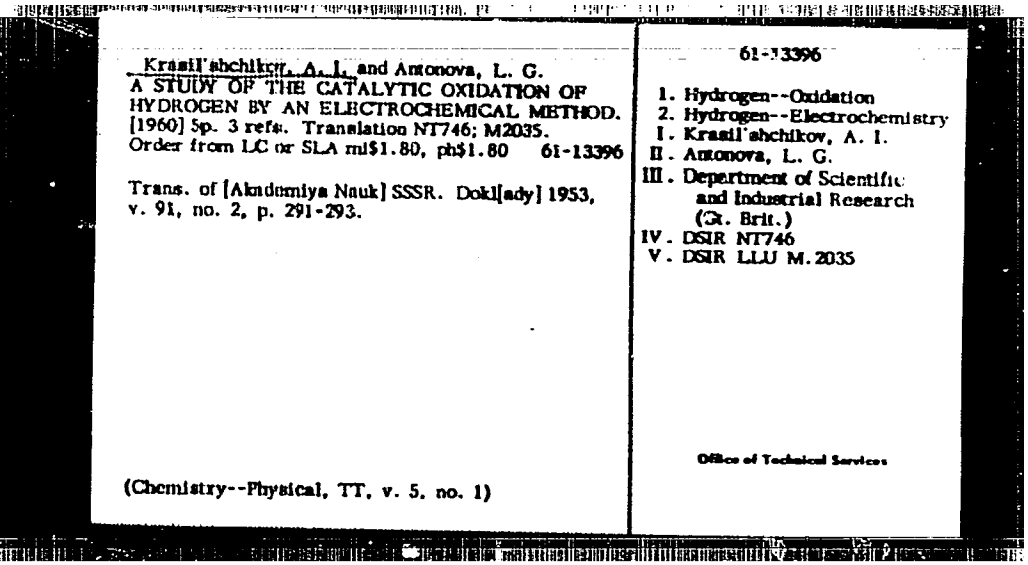

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National Aeronautics and Space Administration. UNSTEADY MOTION OF A WING OF FINITE SPAN IN A COMPRESSIBLE MEDIUM. E. A. Krasilshchikova. May 1961. 19p. OTS price, $0.50. (NASA TECHNICAL TRANSLATION F-58. Translation from Akademiia Nauk SSSR, Izvestiia, Otdelenie Tekhnicheskikh Nauk, no. 3, March 1958, p. 25-32.)

The linearized boundary value problem for the velocity potential for steady or unsteady finite wings in a compressible medium is formulated. The general equation for the velocity potential is given in the form of integrals of source distributions. The local source strength, determined in previous investigations (for example, in NACA TM-1383), is proportional to local downwash, but the region that must be covered by sources, as well as the domain of integration, must extend over all points of the xy-plane from which disturbances can affect the potential.

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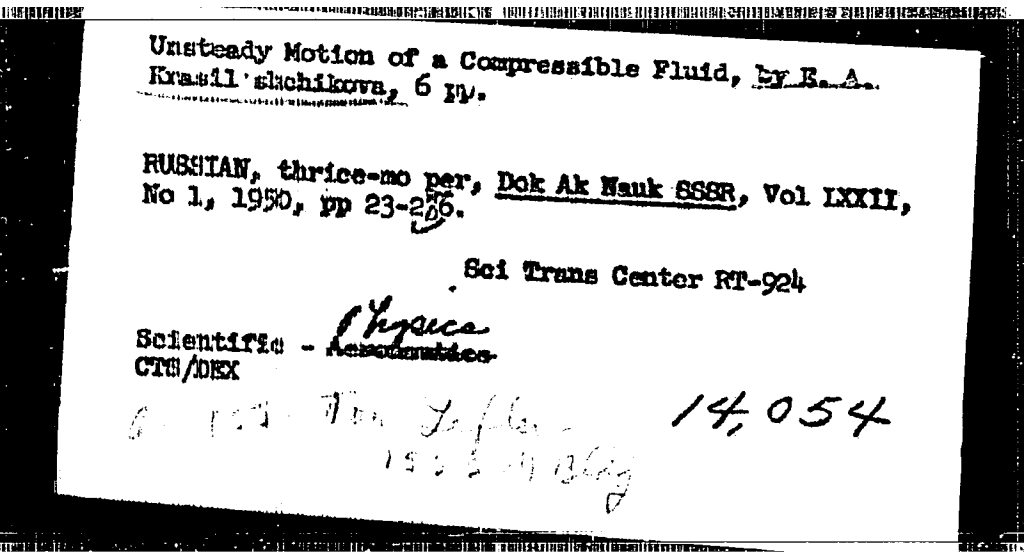

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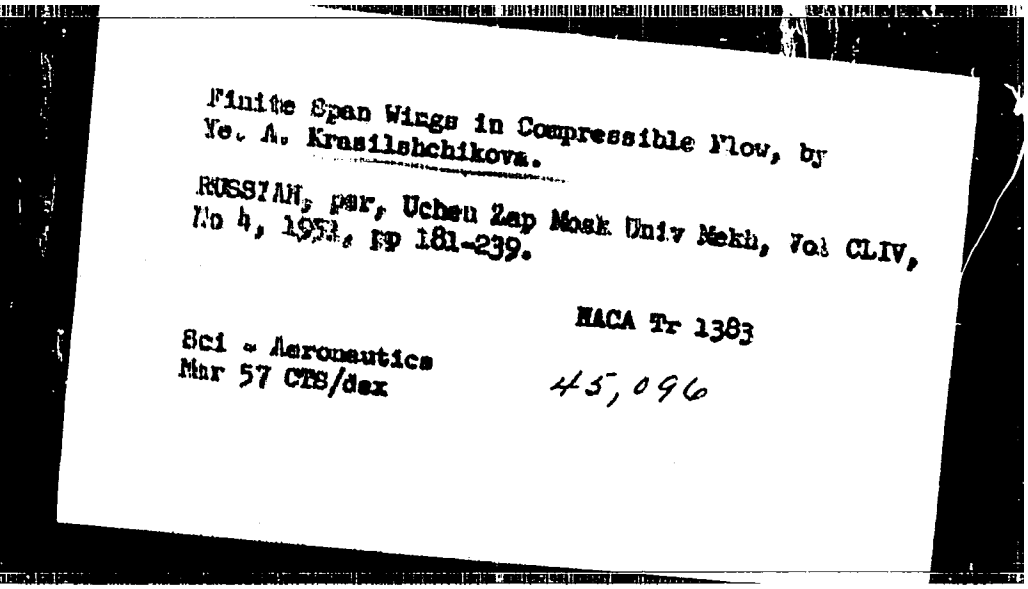

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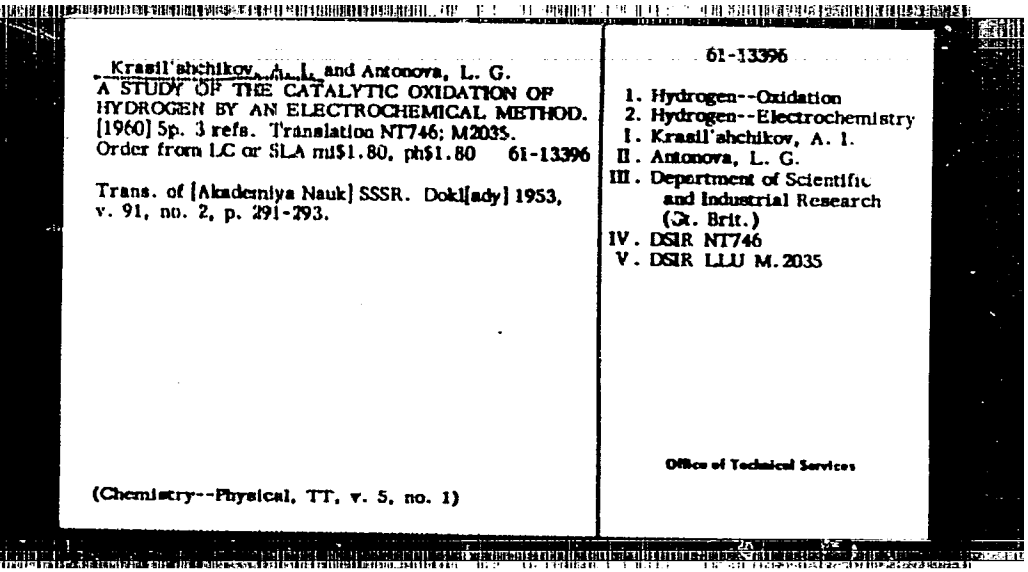

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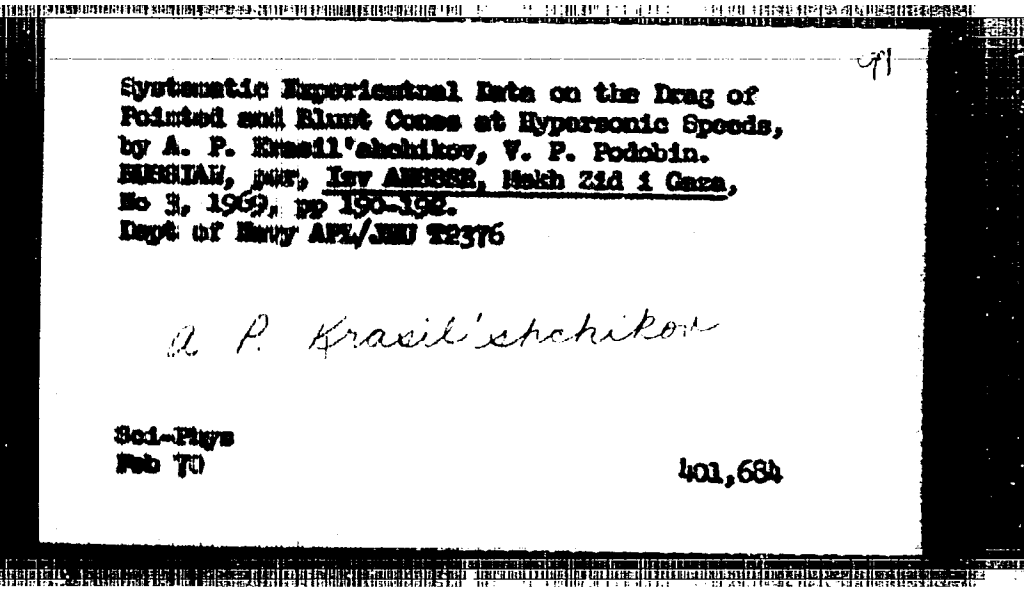

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UNSTEADY MOTION OF A WING OF FINITE SPAN IN A COMPRESSIBLE MEDIUM. E. A. Krasilshchikova. May 1961. 19p. OTS price, $0.50. (NASA TECHNICAL TRANSLATION F-58. Translation from Akademiia Nauk SSSR, Izvestiia, Otdelenie Tekhnicheskikh Nauk, no. 3, March 1958, p. 25-32.)

The linearized boundary value problem for the velocity potential for steady or unsteady finite wings in a compressible medium is formulated. The general equation for the velocity potential is given in the form of integrals of source distributions. The local source strength, determined in previous investigations (for example, in NACA TM-1383), is proportional to local downwash, but the region that must be covered by sources, as well as the domain of integration, must extend over all points of the xy-plane from which disturbances can affect the potential.

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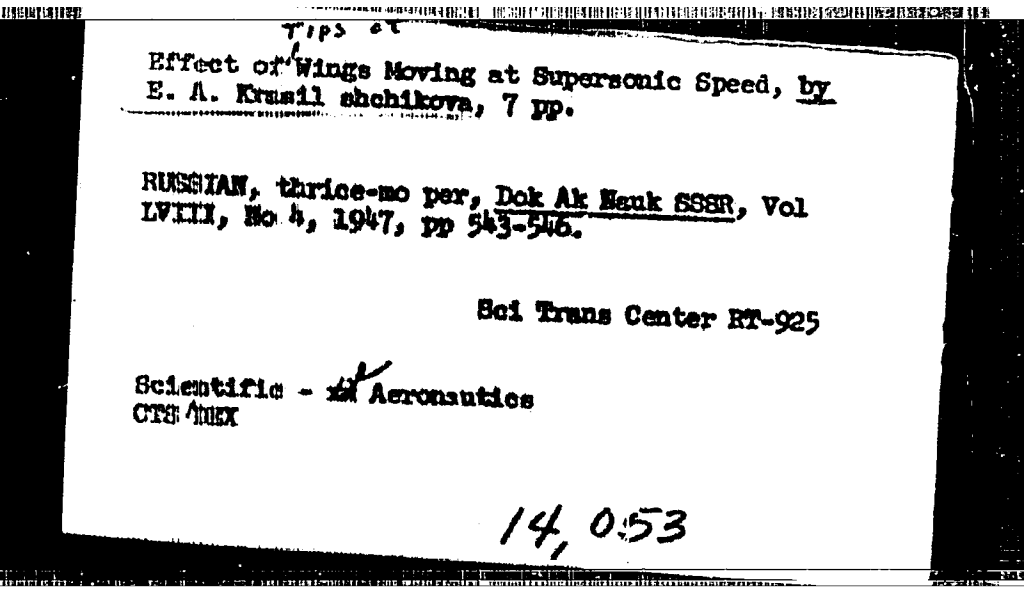

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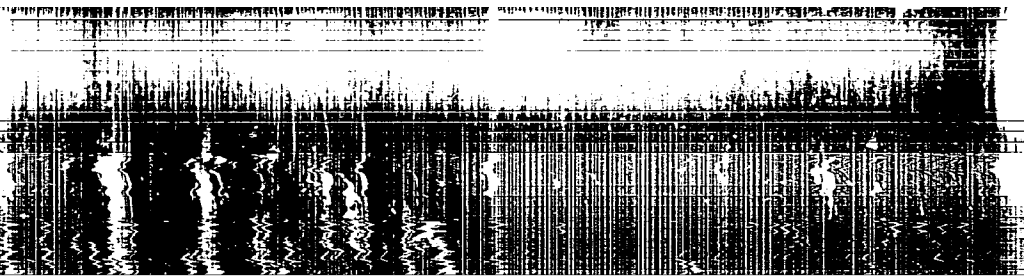

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